

Nitrate/ Nitrite by Flow Injection Colorimetry- LATCHAT QuickChem Method 10-107-04-1-C or 10-107-04-1-A					
Facility Name: _____ VELAP ID: _____					
Assessor Name: _____ Analyst Name: _____ Inspection Date: _____					
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst: _____					
Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____					
Are samples preserved in accordance with the method? <b>Drinking water:</b> <input type="checkbox"/> For nitrate, chill to 4°C and analyze within 48 hours, unless chlorinated. If chlorinated, hold time is 14 days. <input type="checkbox"/> For nitrite, chill to 4°C and analyze within 48 hours. <input type="checkbox"/> For nitrate-nitrite, sulfuric acid to pH <2 and analyze within 28 days? <b>Wastewater:</b> <input type="checkbox"/> For nitrate, chill to 4°C and analyze within 48 hours. <input type="checkbox"/> For nitrite, chill to 4°C and analyze within 48 hours. <input type="checkbox"/> For nitrate-nitrite, sulfuric acid to pH <2, chill to <6°C, and analyze within 28 days?	8.2, 8.3				
<i>Samples MAY be pre-filtered if build-up of suspended matter in the reduction column restricts sample flow. (8.5)</i>					
Are all reagent solutions degassed for one minute using helium?	7.1				
Is sulfanilamide color reagent made fresh monthly?	7.1				
Are 20 mg/L or 200 mg/L nitrate and nitrite standards made fresh at least every 5 days?	7.2				
Are nitrate and nitrite working standards made fresh daily?	7.2				
Is the instrument allowed to equilibrate until a stable baseline is achieved?	11.4				
Is the MDL established per 40 CFR 136?	9.2.1				
Is a second source QCS (or LCS) analyzed with each batch? (Lab must establish acceptance range.)	9.7, 10.8				
Is a LRB analyzed with each batch of 20 samples and determined to be less than the Minimum Level? (Method does not define minimum level- use MDL per EPA 353.2.)	9.4				
Notes/Comments:					

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Is a mid-range calibration standard analyzed after every 10 samples and its recovery within $\pm 10\%$ ?	10.7, 10.8				
If samples are over-range, are they diluted and reanalyzed?	12.2				
Are results reported to two significant figures for samples above the MDL?	12.3				
Notes/Comments:					